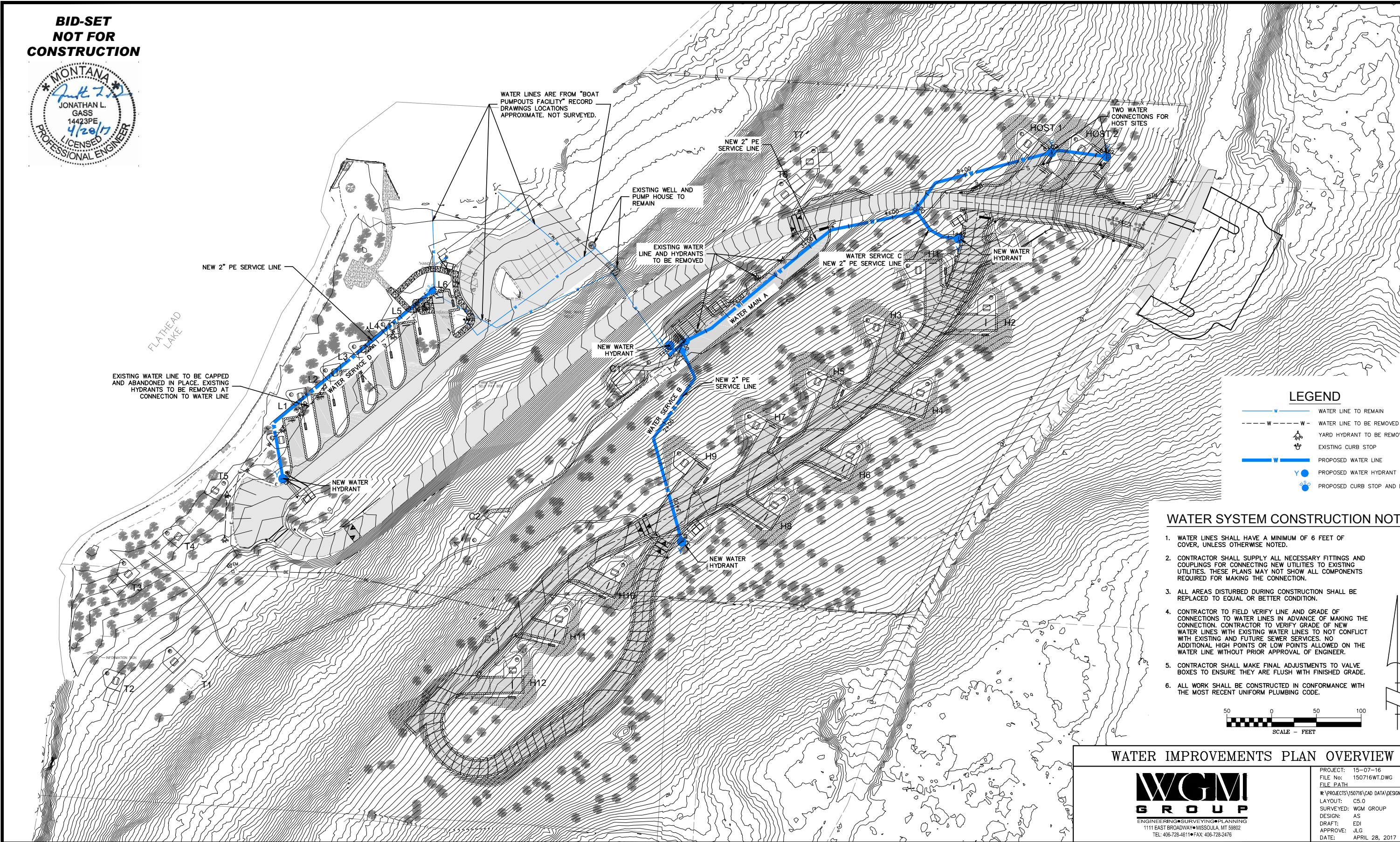
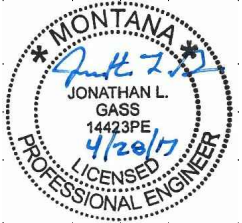
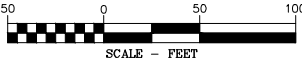


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CONSTRUCTION



WATER SYSTEM CONSTRUCTION NOTES

1. WATER LINES SHALL HAVE A MINIMUM OF 6 FEET OF COVER, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL SUPPLY ALL NECESSARY FITTINGS AND COUPLINGS FOR CONNECTING NEW UTILITIES TO EXISTING UTILITIES. THESE PLANS MAY NOT SHOW ALL COMPONENTS REQUIRED FOR MAKING THE CONNECTION.
3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO EQUAL OR BETTER CONDITION.
4. CONTRACTOR TO FIELD VERIFY LINE AND GRADE OF CONNECTIONS TO WATER LINES IN ADVANCE OF MAKING THE CONNECTION. CONTRACTOR TO VERIFY GRADE OF NEW WATER LINES WITH EXISTING WATER LINES TO NOT CONFLICT WITH EXISTING AND FUTURE SEWER SERVICES. NO ADDITIONAL HIGH POINTS OR LOW POINTS ALLOWED ON THE WATER LINE WITHOUT PRIOR APPROVAL OF ENGINEER.
5. CONTRACTOR SHALL MAKE FINAL ADJUSTMENTS TO VALVE BOXES TO ENSURE THEY ARE FLUSH WITH FINISHED GRADE.
6. ALL WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE MOST RECENT UNIFORM PLUMBING CODE.



WATER IMPROVEMENTS PLAN OVERVIEW



PROJECT: 15-07-16
FILE No: 150716WT.DWG
FILE PATH:
W:\PROJECTS\150716\CAD DATA\DESIGN
LAYOUT: C5.0
SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

DRAWN BY:	DATE:	REVISED BY:	DATE:	APPROVED BY:	DATE:
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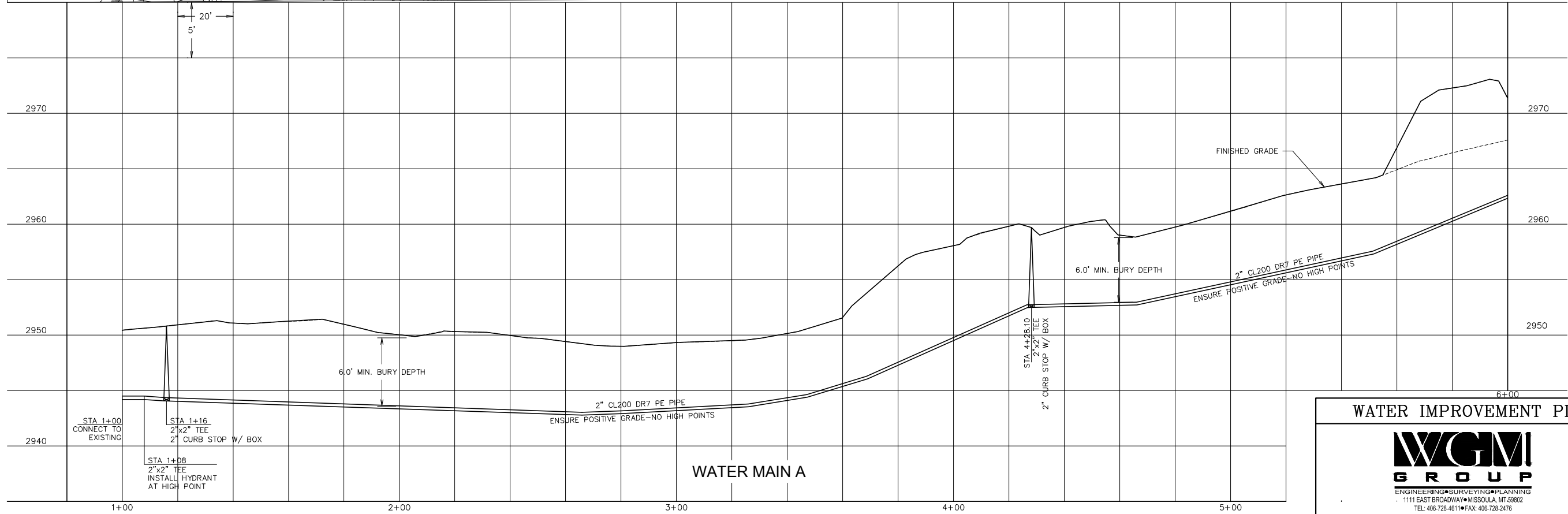
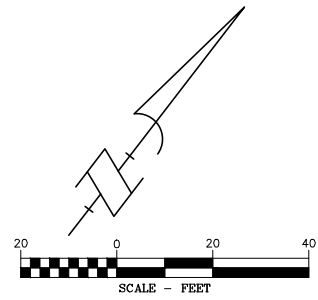
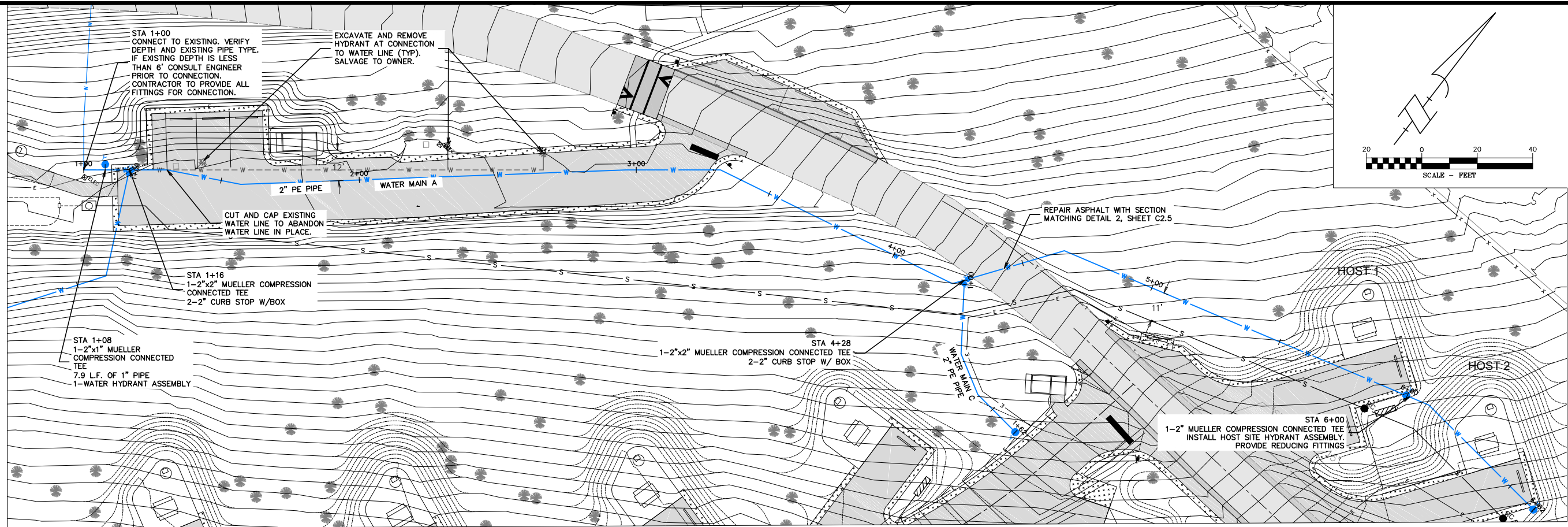


MONTANA
STATE PARKS

FINLEY POINT STATE PARK CAMPGROUND
REGION 1

FWP #7096123

SHEET: C5.0



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WATER IMPROVEMENT PLAN AND PROFILE



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LAYOUT: C5.1
SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

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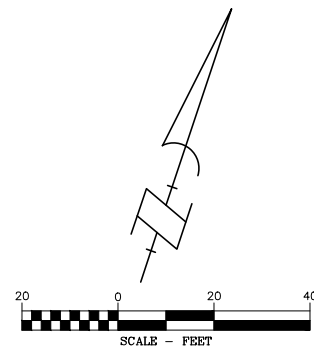
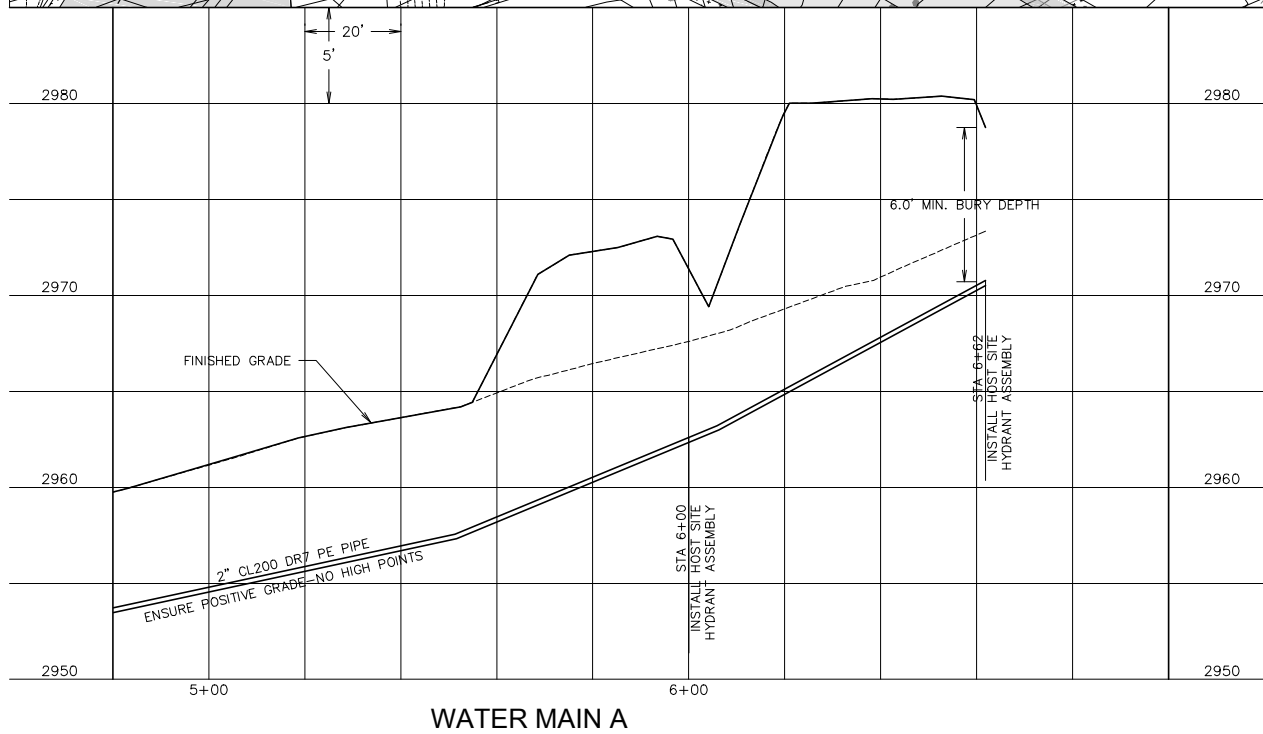
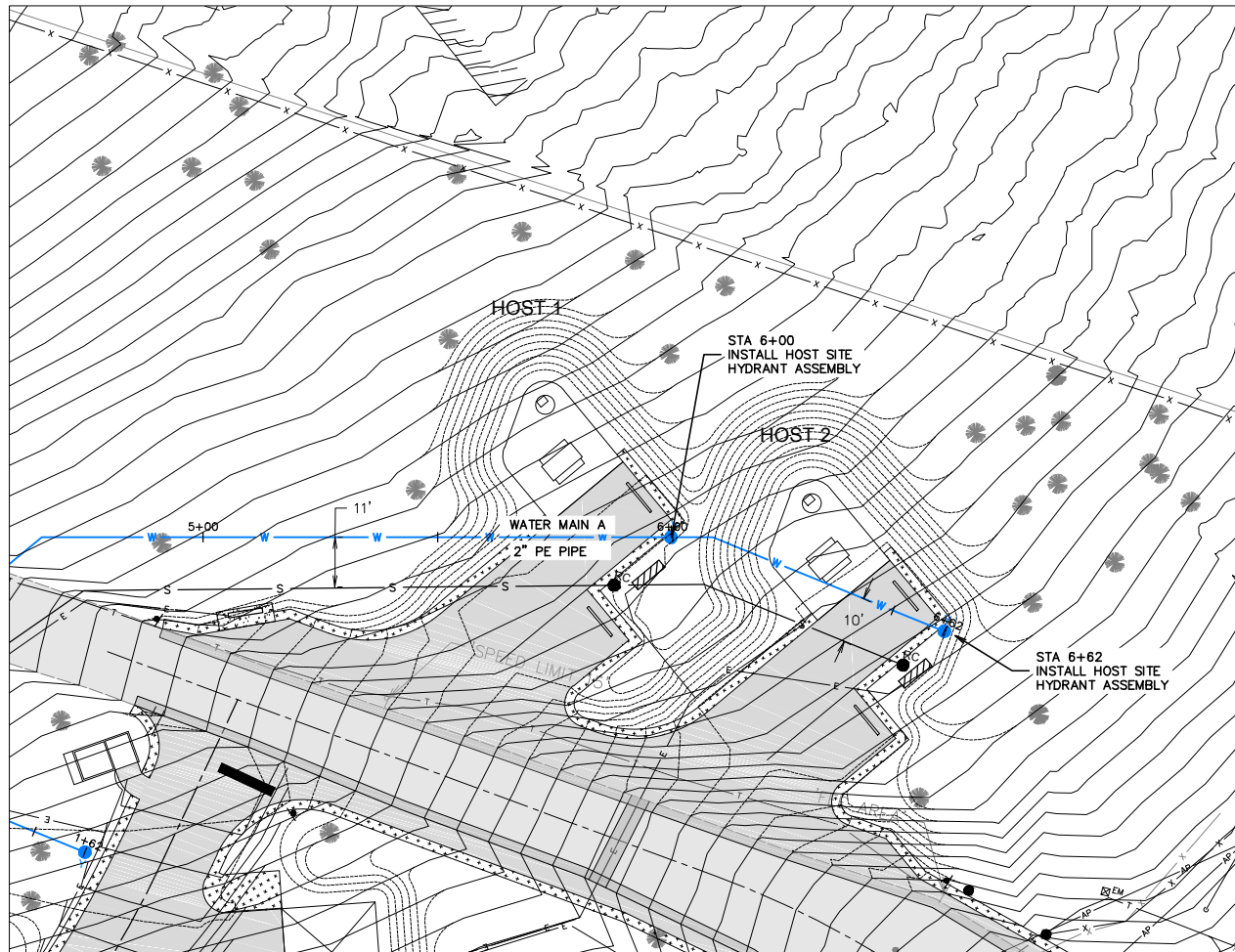


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**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**

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SHEET: C5.1



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WATER IMPROVEMENT PLAN AND PROFILE



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DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

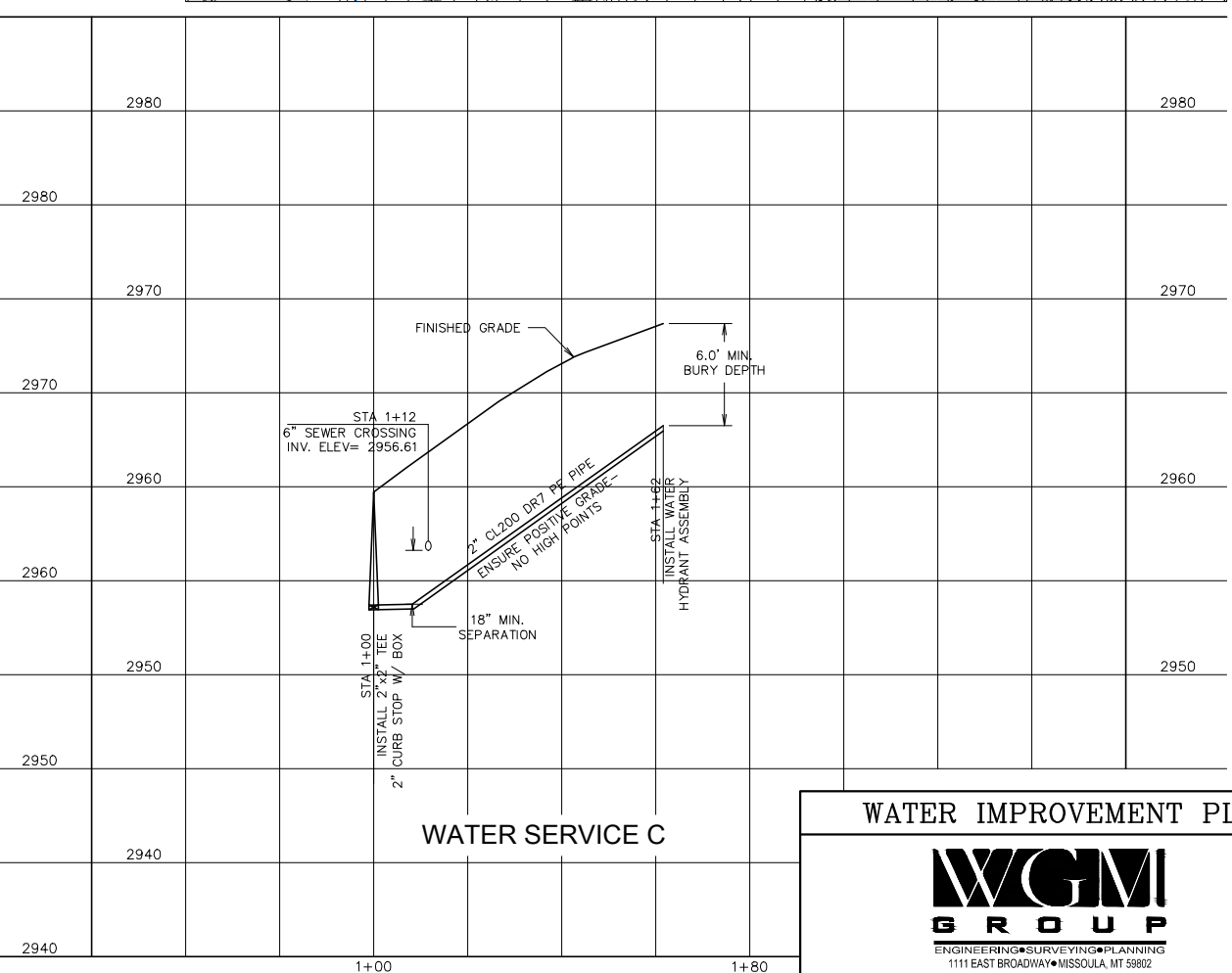
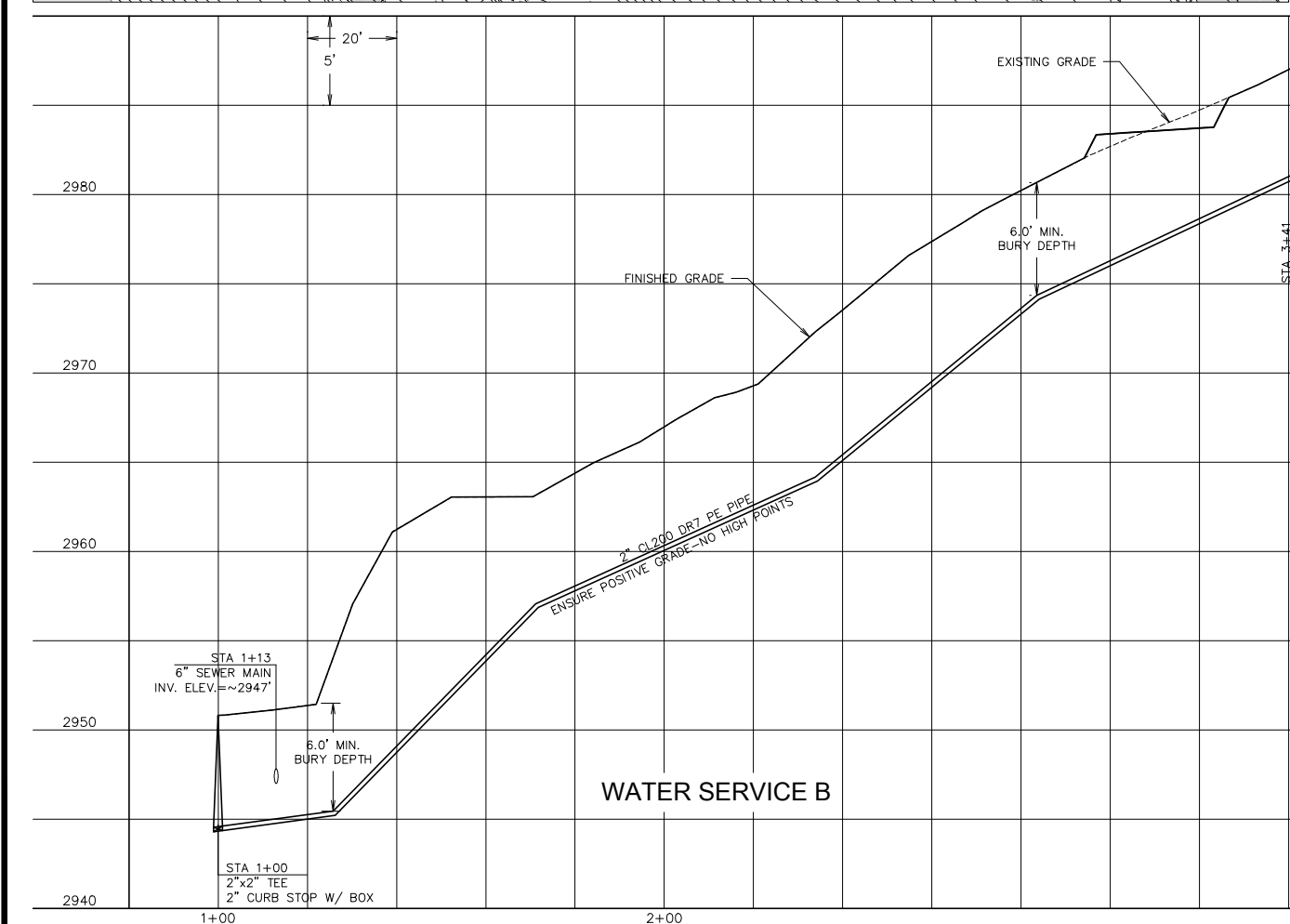
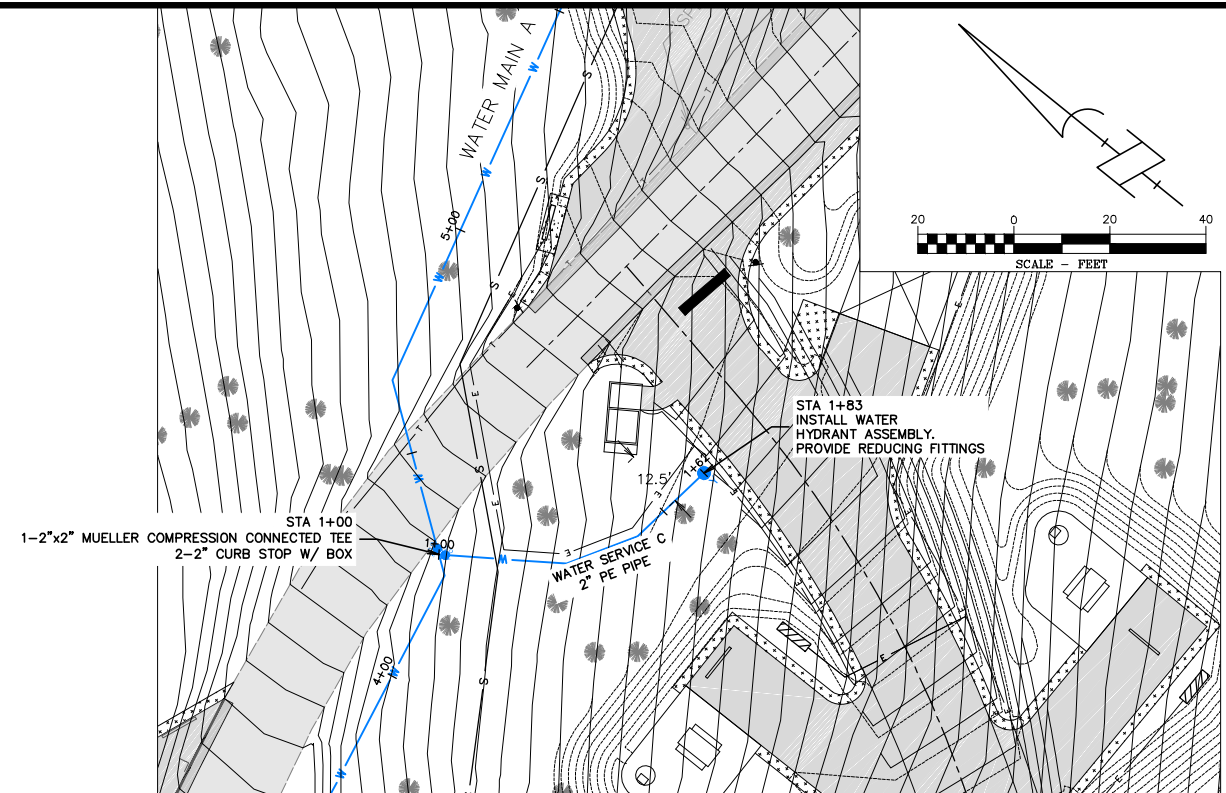
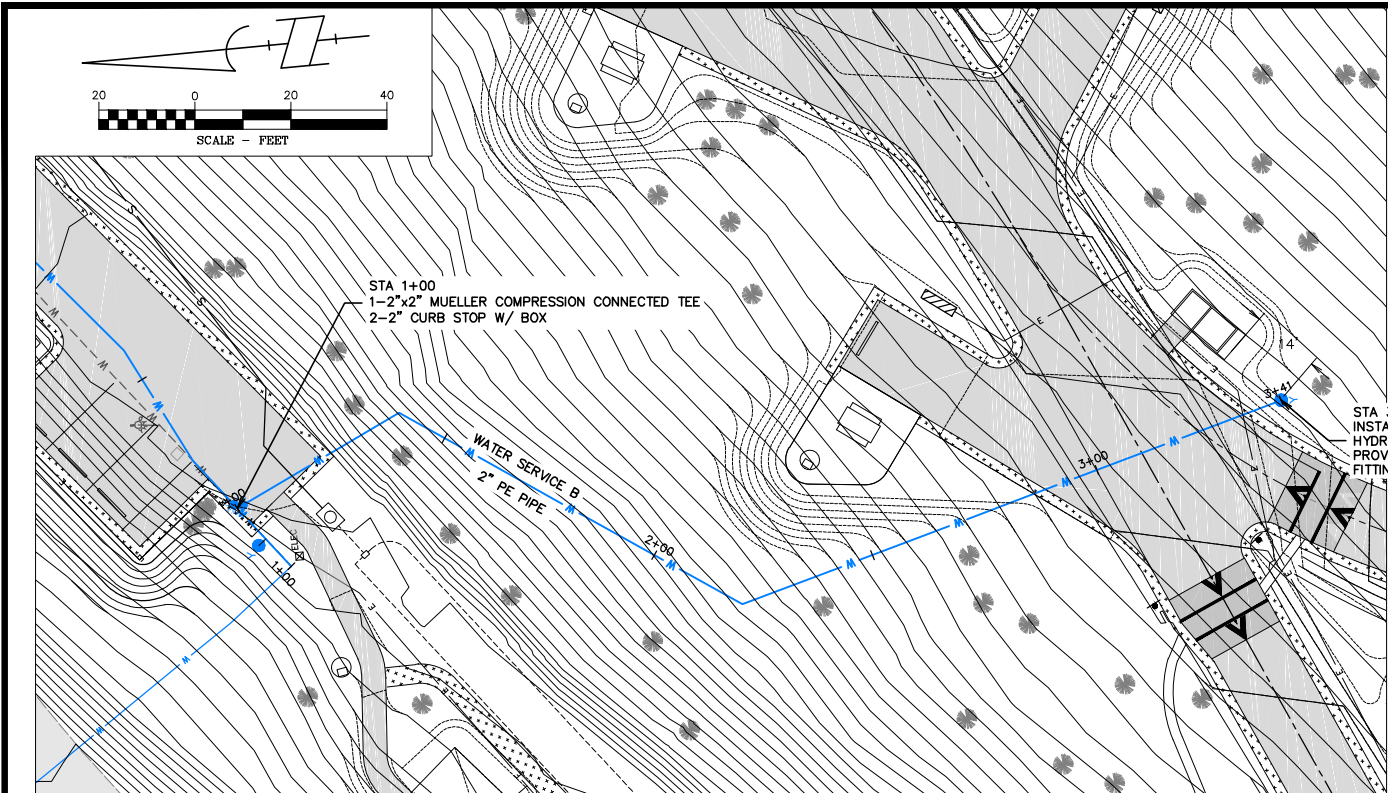
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**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**

FWP #7096123

SHEET: C5.2

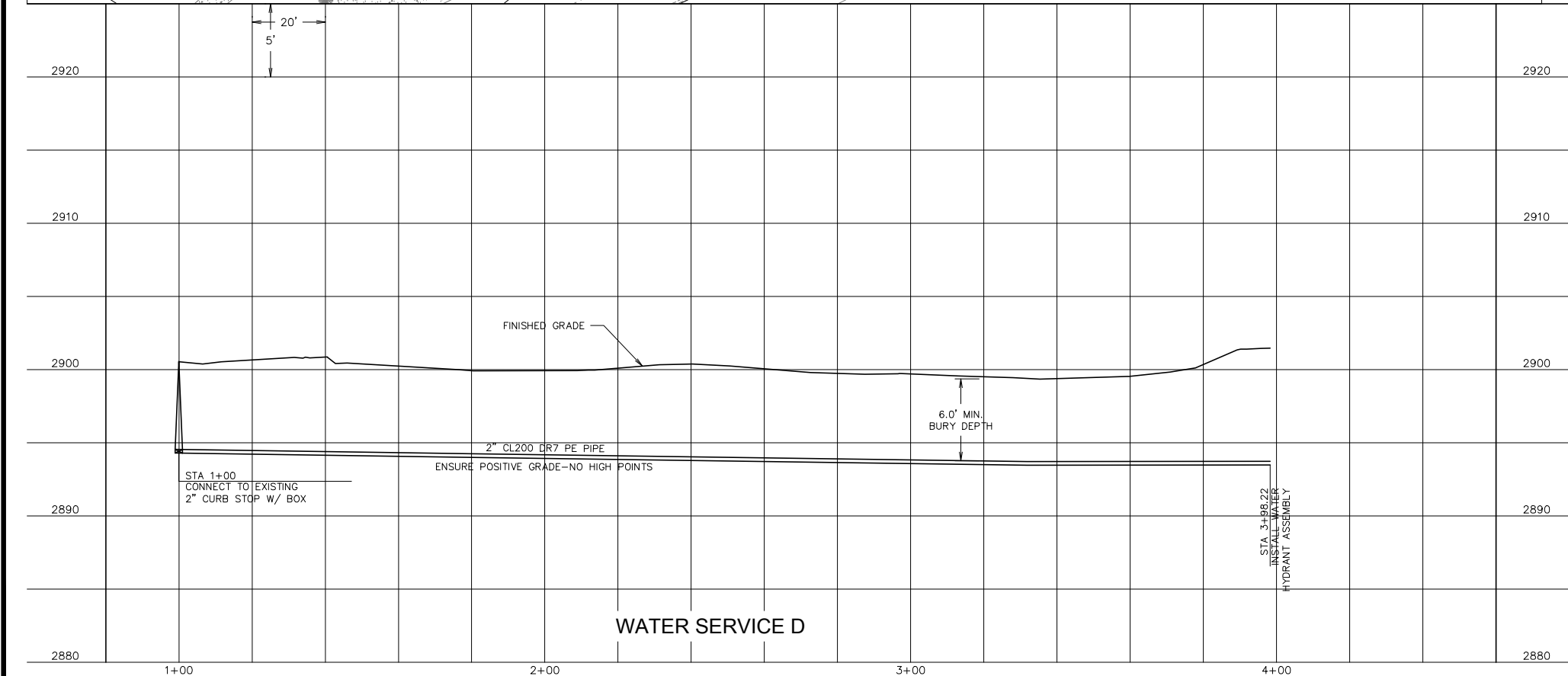
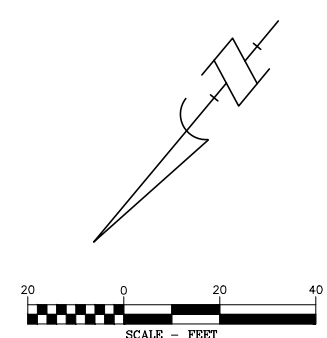
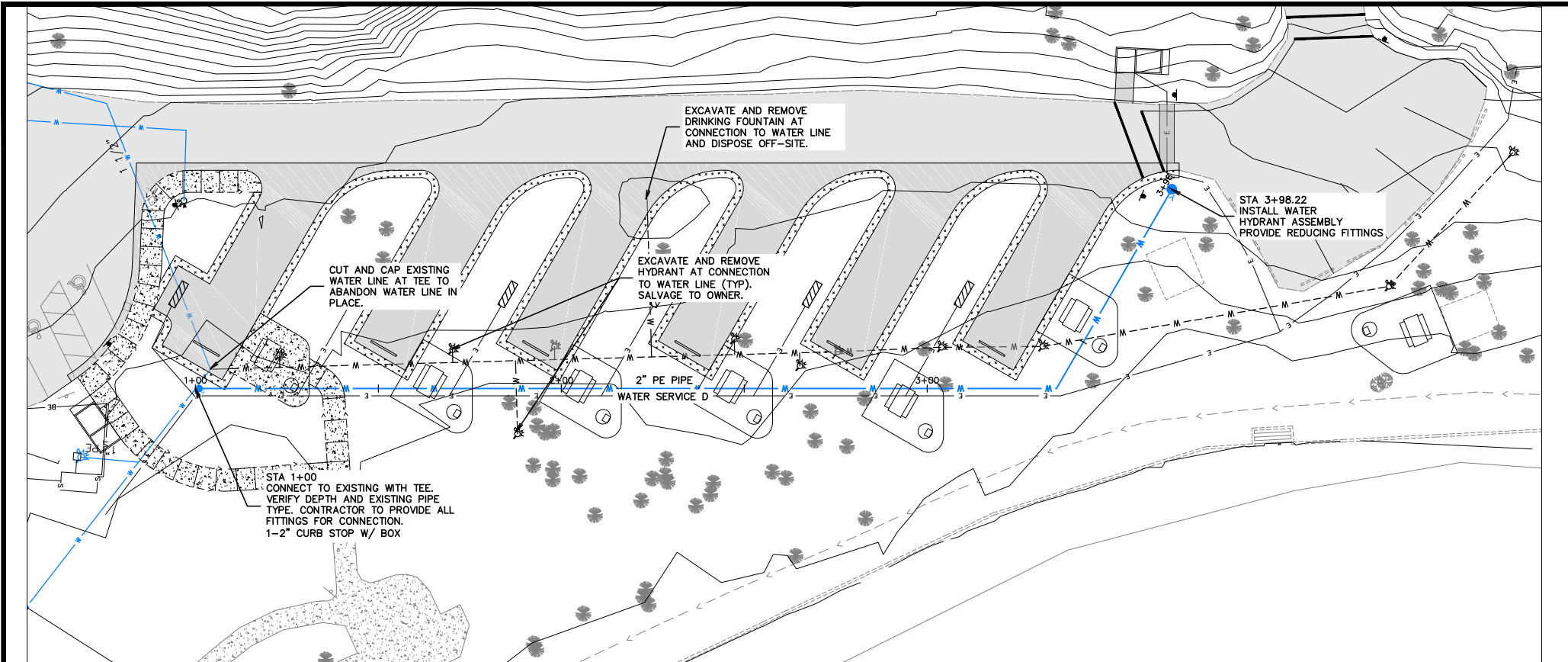


WATER IMPROVEMENT PLAN AND PROFILE

ENGINEERING • SURVEYING • PLANNING
1111 EAST BROADWAY • MISSOULA, MT 59802
TEL: 406-728-4611 • FAX: 406-728-2476

PROJECT: 15-07-16
FILE No: 150716WT.DWG
FILE PATH:
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SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

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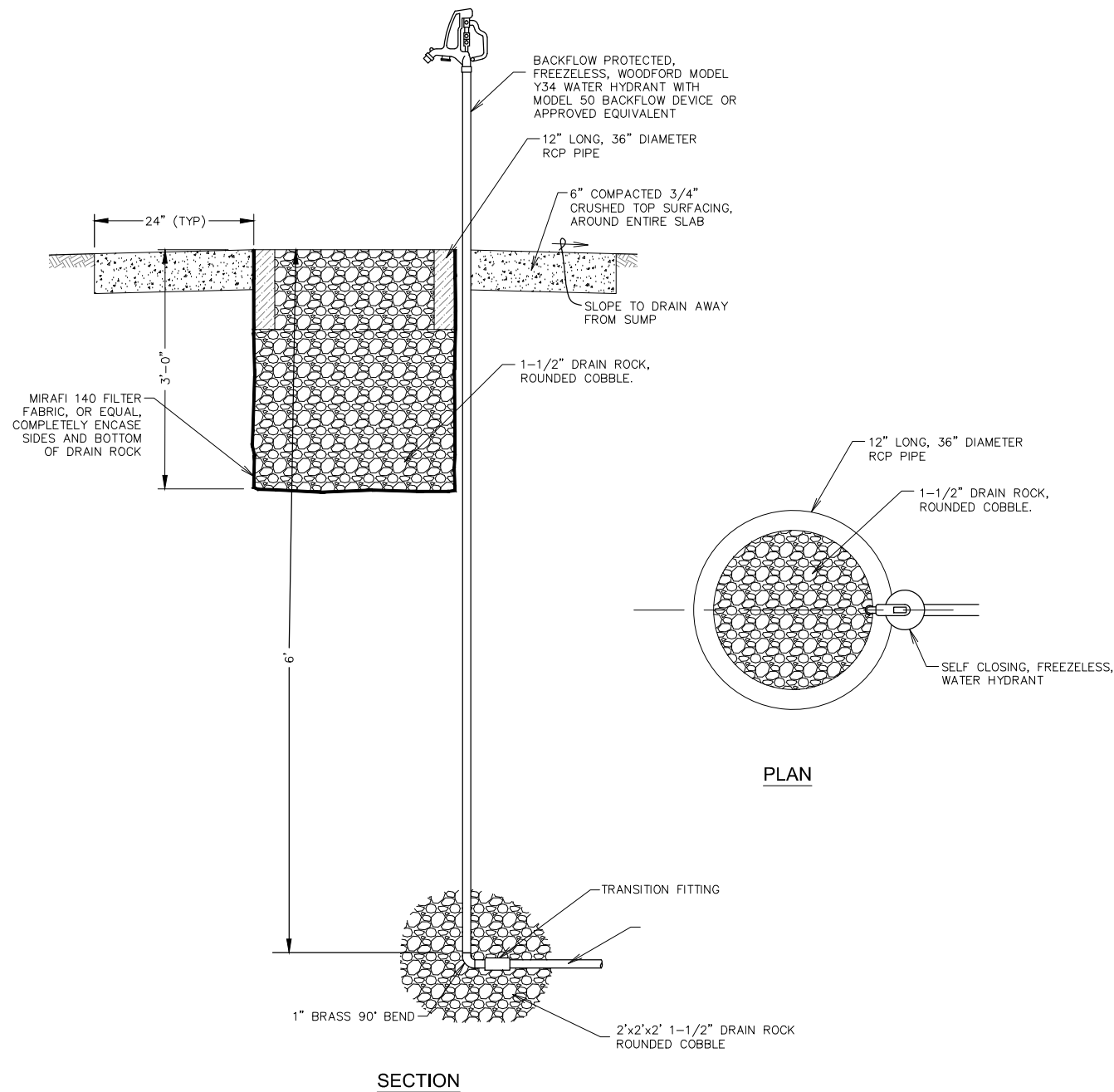
**BID-SET
NOT FOR
CONSTRUCTION**

MONTANA
JONATHAN L. GASS
14423PE
4/29/17
LICENSED PROFESSIONAL ENGINEER

WATER IMPROVEMENT PLAN AND PROFILE	
	
ENGINEERING • SURVEYING • PLANNING 1111 EAST BROADWAY • MISSOULA, MT 59802 TEL: 406-728-4611 • FAX: 406-728-2476	
PROJECT: 15-07-16 FILE No: 150716WT.DWG FILE PATH: W:\PROJECTS\150716\CAD DATA\DESIGN LAYOUT: C5.4 SURVEYED: WGM GROUP DESIGN: AS DRAFT: EDI APPROVE: JLG DATE: APRIL 28, 2017	

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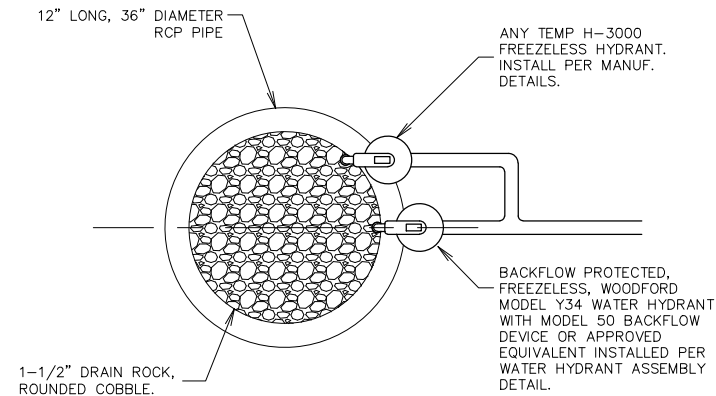




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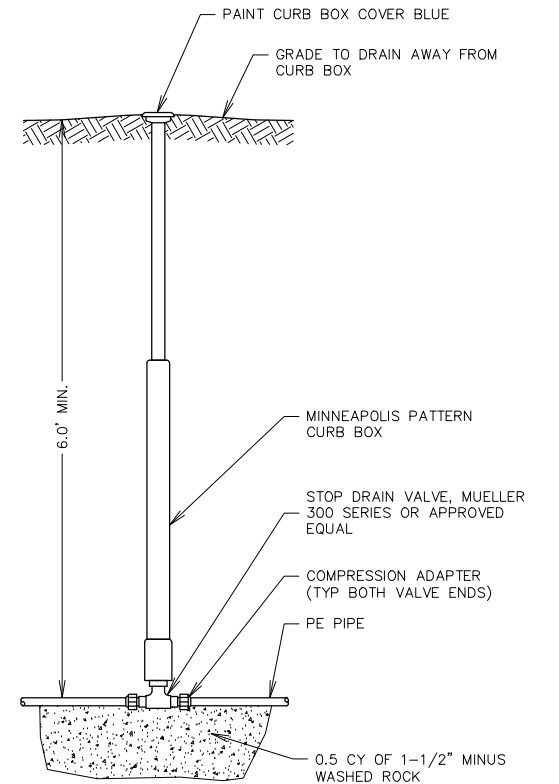
WATER HYDRANT ASSEMBLY DETAIL

NO SCALE



HOST SITE HYDRANT ASSEMBLY DETAIL

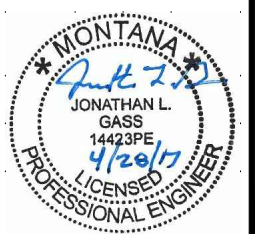
NO SCALE



CURB STOP DETAIL

NO SCALE

**BID-SET
NOT FOR
CONSTRUCTION**



WATER IMPROVEMENT DETAILS



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FILE PATH:
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LAYOUT: C5.5
SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

DRAWN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
REVISED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____



**MONTANA
STATE PARKS**

**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**

FWP #7096123

SHEET: C5.5

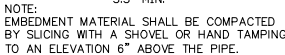


NOTES:

- 1) SPECIFIC MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES APPROVAL IS REQUIRED FOR A DISTANCE LESS THAN 10 FEET BETWEEN WATER MAIN AND GRAVITY SEWER.
- 2) NO EXCEPTION TO THE MIN. SEPARATION REQUIREMENT IS PERMITTED WHEN THE SEWAGE CARRYING PIPE IS FORCE MAIN. AT CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE TO BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE FORCE MAIN AS POSSIBLE.
- 3) LESS THAN 18 INCHES OF SEPARATION IS PERMITTED WHEN THE GRAVITY SEWER AT THE CROSSING IS MADE FROM A SINGLE 20 FOOT LENGTH OF AWWA PRESSURE PIPE AND CROSSING ANGLE IS APPROXIMATELY 90 DEGREES. SPECIFIC MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES APPROVAL IS REQUIRED FOR A VERTICAL SEPARATION OF LESS THAN 18 INCHES BETWEEN WATER MAIN AND SANITARY SEWER.
- 4) "L" IS STANDARD LENGTH OF PIPE AS SUPPLIED BY A PIPE MANUFACTURER.
- 5) PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR PIPES AT CROSSINGS.

WATER AND SEWER MAIN SEPARATION

NO SCALE

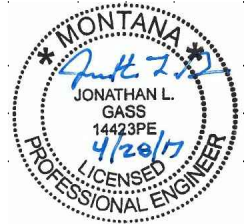


TYPICAL UTILITY TRENCH DETAIL

NO SCALE

- NOTES:**
1. MINIMUM 6 FOOT COVER TO BE MAINTAINED ALONG THE ENTIRE WATER LINE. WHERE AT LEAST 6 FOOT COVER CANNOT BE MAINTAINED, INSTALL RIGID BOARD INSULATION AS DIRECTED BY THE ENGINEER. ACTUAL DEPTH OF BURY MAY EXCEED 6 FEET DUE TO TOPOGRAPHY.

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WATER IMPROVEMENT DETAILS



PROJECT: 15-07-16
FILE No: 150716WT.DWG
FILE PATH
W:\PROJECTS\150716\CAD DATA\DESIGN
LAYOUT: C5.6
SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

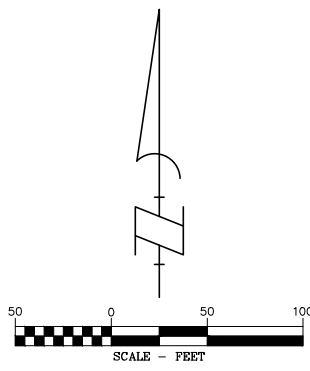
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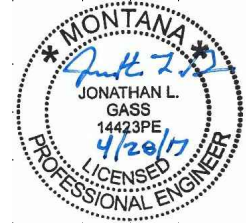
MONTANA STATE PARKS

FINLEY POINT STATE PARK CAMPGROUND
REGION 1 FWP #7096123

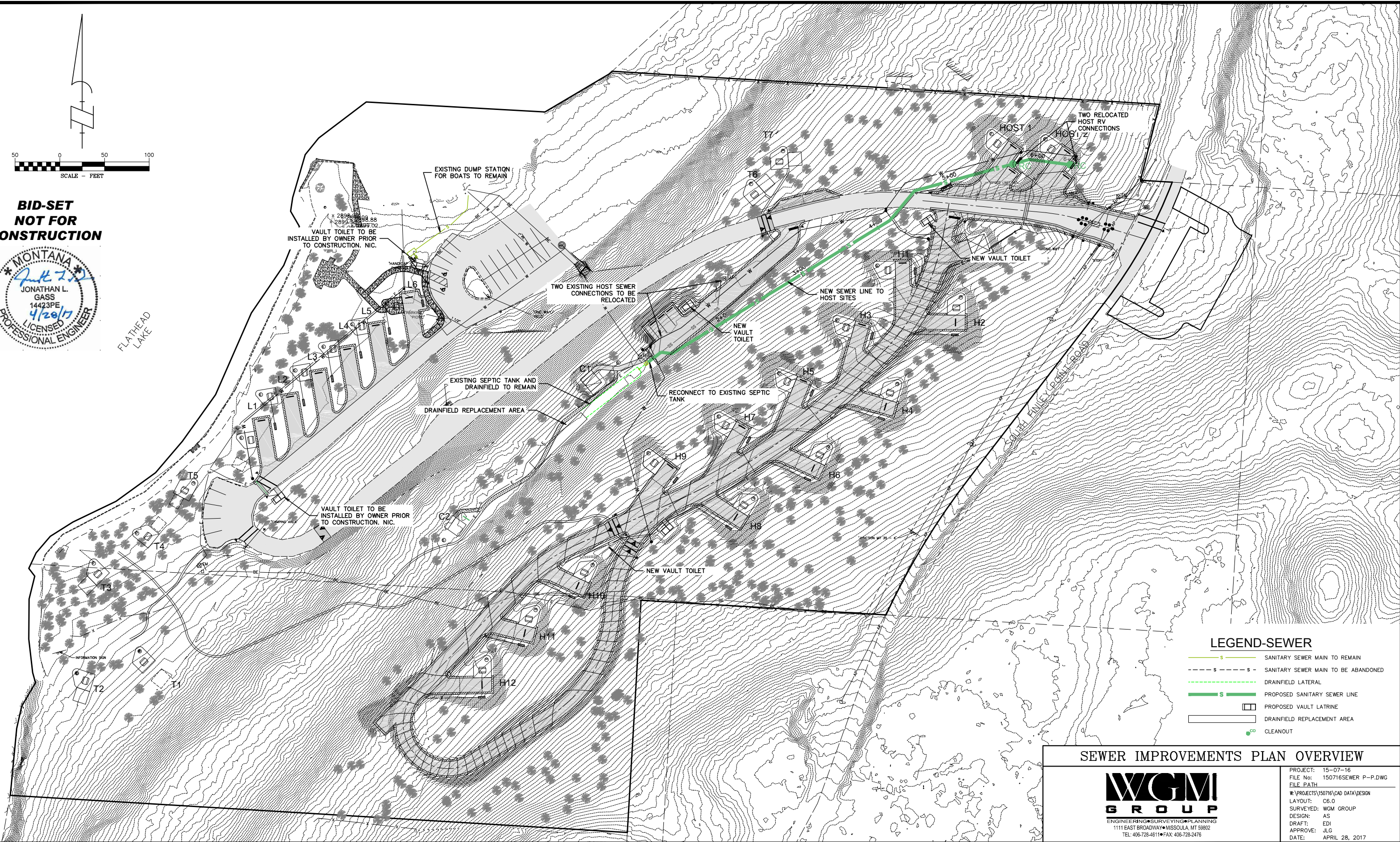
SHEET: C5.6



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FLATHEAD
LAKE



LEGEND-SEWER	
	SANITARY SEWER MAIN TO REMAIN
	SANITARY SEWER MAIN TO BE ABANDONED
	DRAINFIELD LATERAL
	PROPOSED SANITARY SEWER LINE
	PROPOSED VAULT LATRINE
	DRAINFIELD REPLACEMENT AREA
	CLEANOUT

SEWER IMPROVEMENTS PLAN OVERVIEW



PROJECT:	15-07-16
FILE No:	150716SEWER P-P.DWG
FILE PATH:	
W:\PROJECTS\150716\CAD DATA\DESIGN	
LAYOUT:	C6.0
SURVEYED:	WGM GROUP
DESIGN:	AS
DRAFT:	EDI
APPROVE:	JLG
DATE:	APRIL 28, 2017

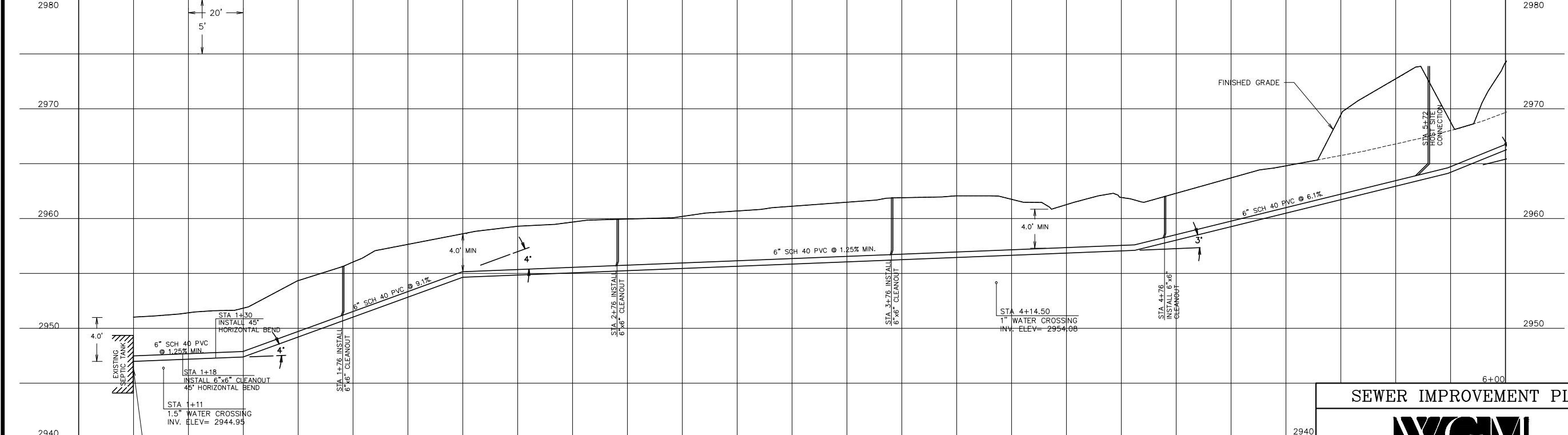
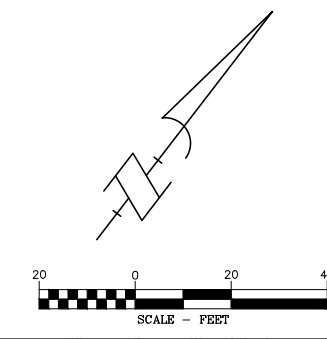
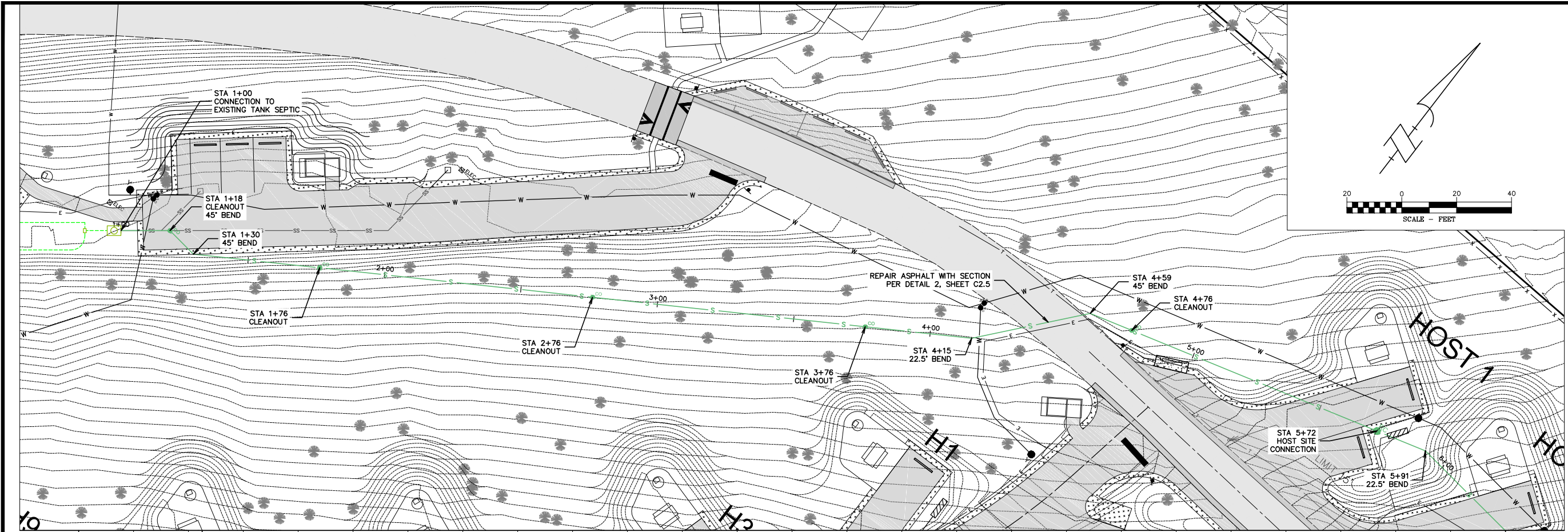
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**MONTANA
STATE PARKS**

**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**
FWP #7096123

SHEET: C6.0



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MONTANA
JONATHAN L. GASS
14423PE
4/29/17
LICENSED PROFESSIONAL ENGINEER

SEWER IMPROVEMENT PLAN AND PROFILE

WGM GROUP
ENGINEERING SURVEYING PLANNING
1111 EAST BROADWAY MISSOULA, MT 59802
TEL: 406-728-4611 FAX: 406-728-2476

PROJECT: 15-07-16
FILE No: 150716SEWER P-P.DWG
FILE PATH: W:\PROJECTS\150716\CAD DATA\DESIGN
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SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
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DATE: APRIL 28, 2017

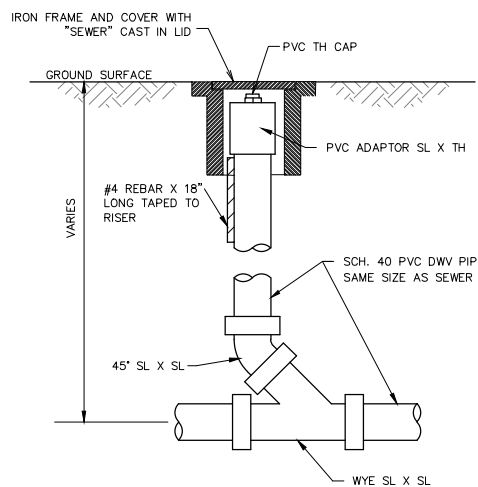
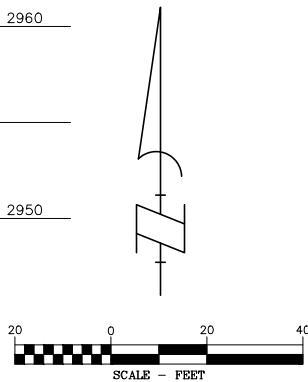
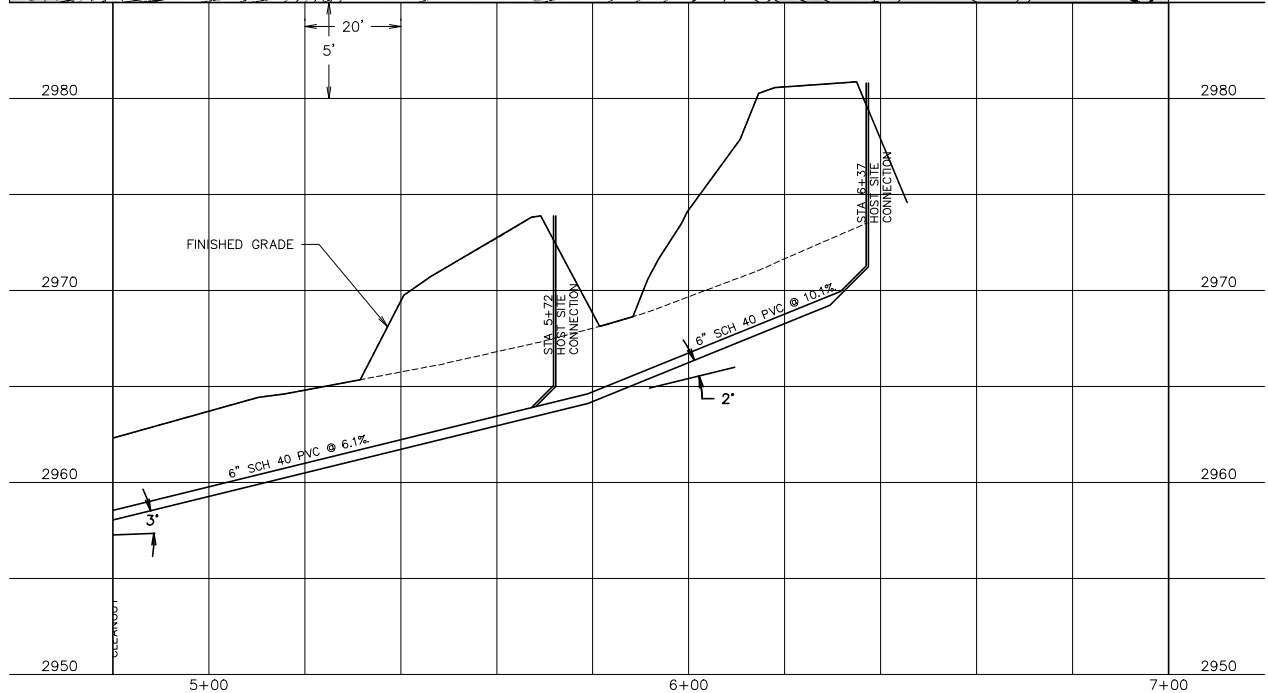
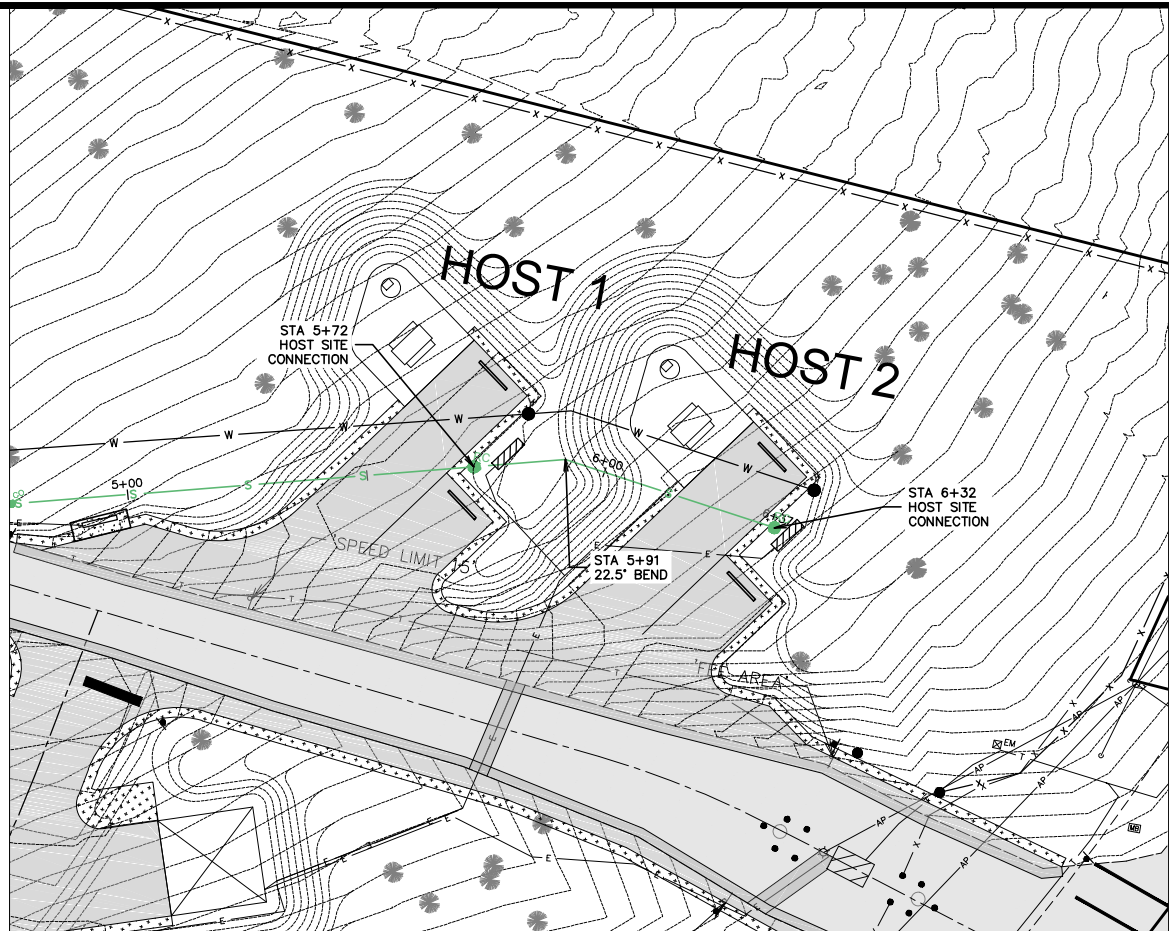
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MONTANA STATE PARKS

**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**

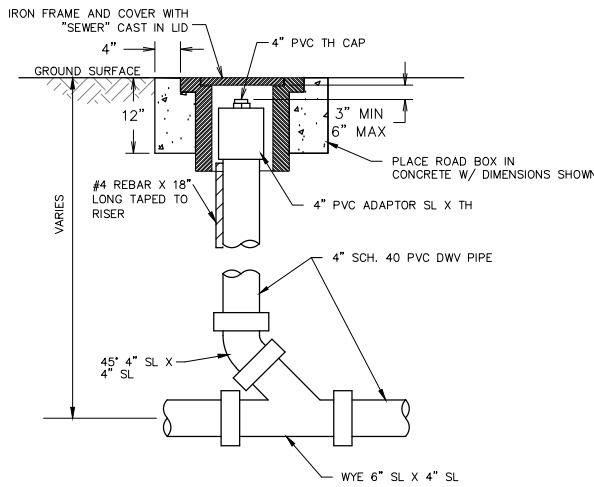
FWP #7096123

SHEET: C6.1

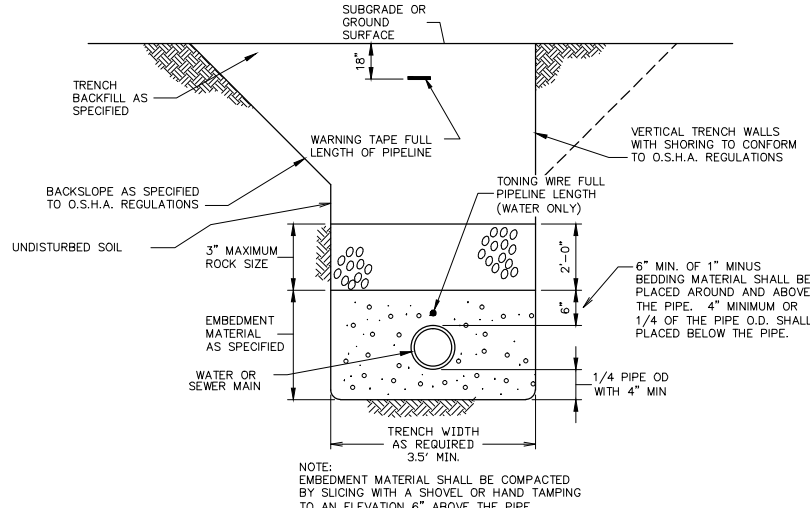


CLEANOUT DETAIL
NO SCALE

- NOTES:
1. CLEANOUTS SHALL BE PLACED EVERY 100 FEET OF DISTANCE OR CHANGE OF HORIZONTAL DIRECTION OF 135° OR MORE.
 2. ALL CLEANOUTS SHALL BE EXTENDED TO FINISHED GRADE.
 3. CLEANOUT MATERIALS AND SIZE SHALL BE THE SAME AS THE SANITARY SEWER PIPE.
 4. ALL WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE MOST RECENT UNIFORM PLUMBING CODE.

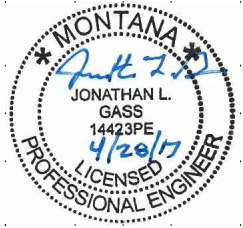


RV CONNECTION DETAIL
NO SCALE



TYPICAL UTILITY TRENCH DETAIL
NO SCALE

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CONSTRUCTION**



SEWER IMPROVEMENT PLAN AND PROFILE



PROJECT: 15-07-16
FILE No: 150716SEWER P-P.DWG
FILE PATH:
W:\PROJECTS\150716\CAD DATA\DESIGN
LAYOUT: C6.2
SURVEYED: WGM GROUP
DESIGN: AS
DRAFT: EDI
APPROVE: JLG
DATE: APRIL 28, 2017

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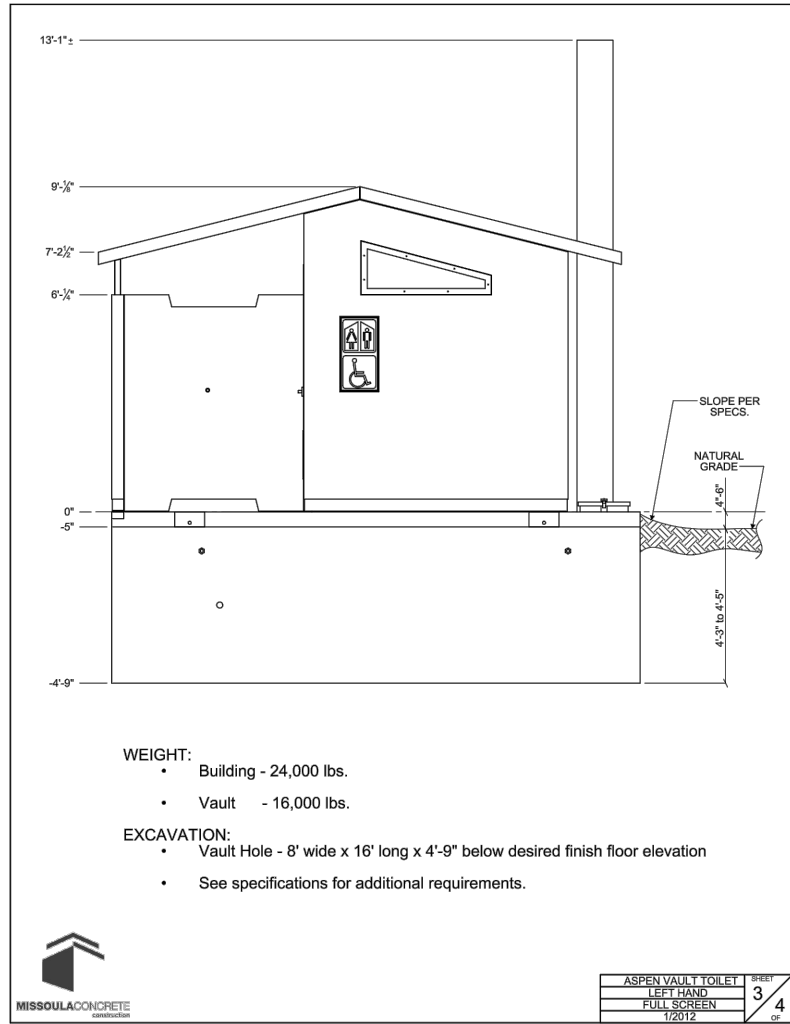
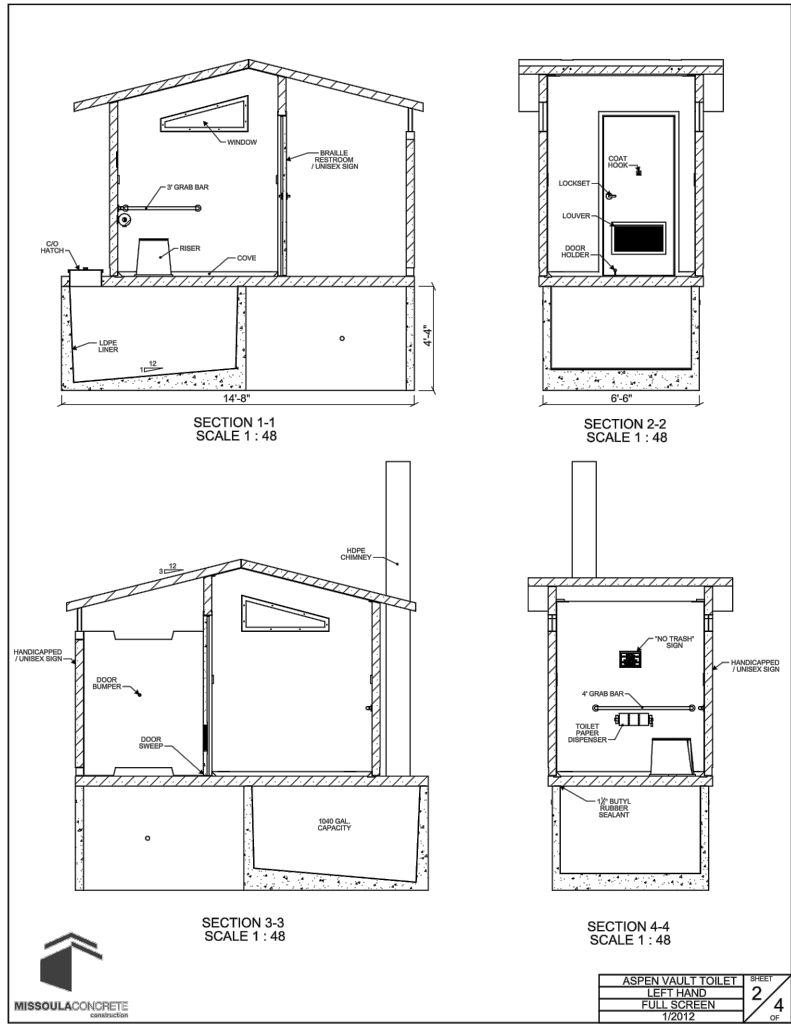
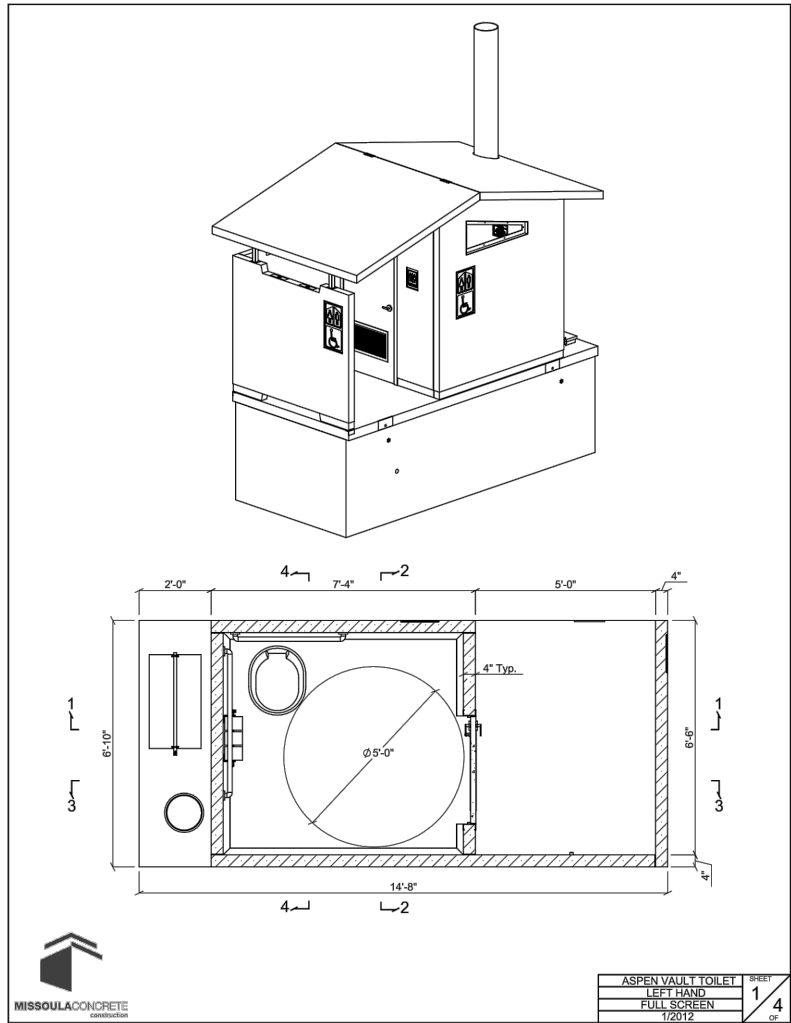


**MONTANA
STATE PARKS**

**FINLEY POINT STATE PARK CAMPGROUND
REGION 1**

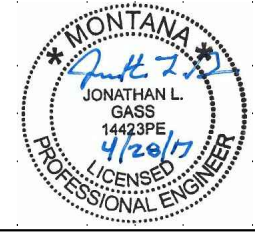
FWP #7096123

SHEET: C6.2



OWNER TO SUPPLY LATRINE ASSEMBLY INCLUDING DELIVERY, AND LATRINE SETTING. CONTRACTOR TO PROVIDE SITE PREP, EXCAVATION, AND BACKFILLING PER DRAWINGS AND SPECIFICATIONS.

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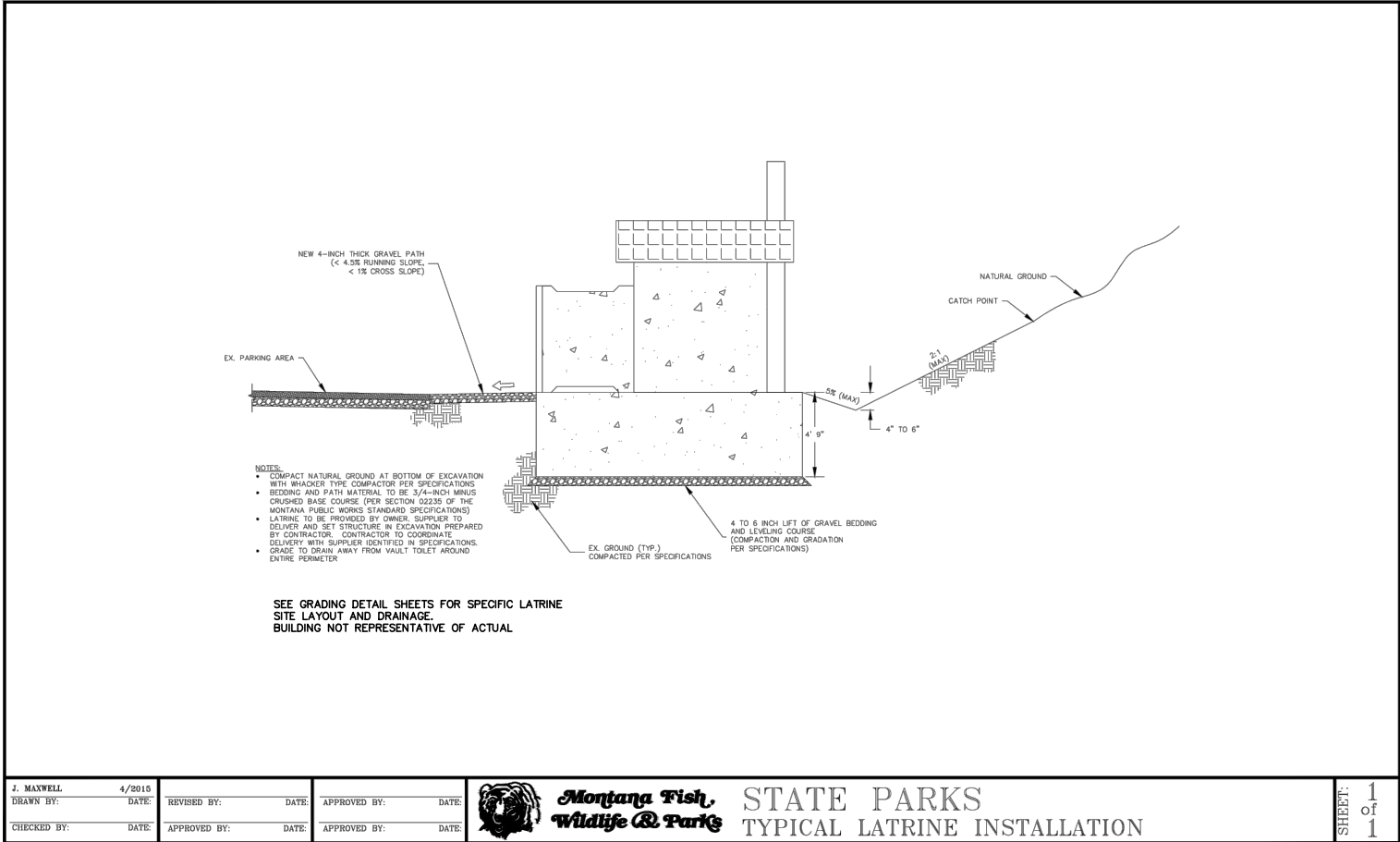
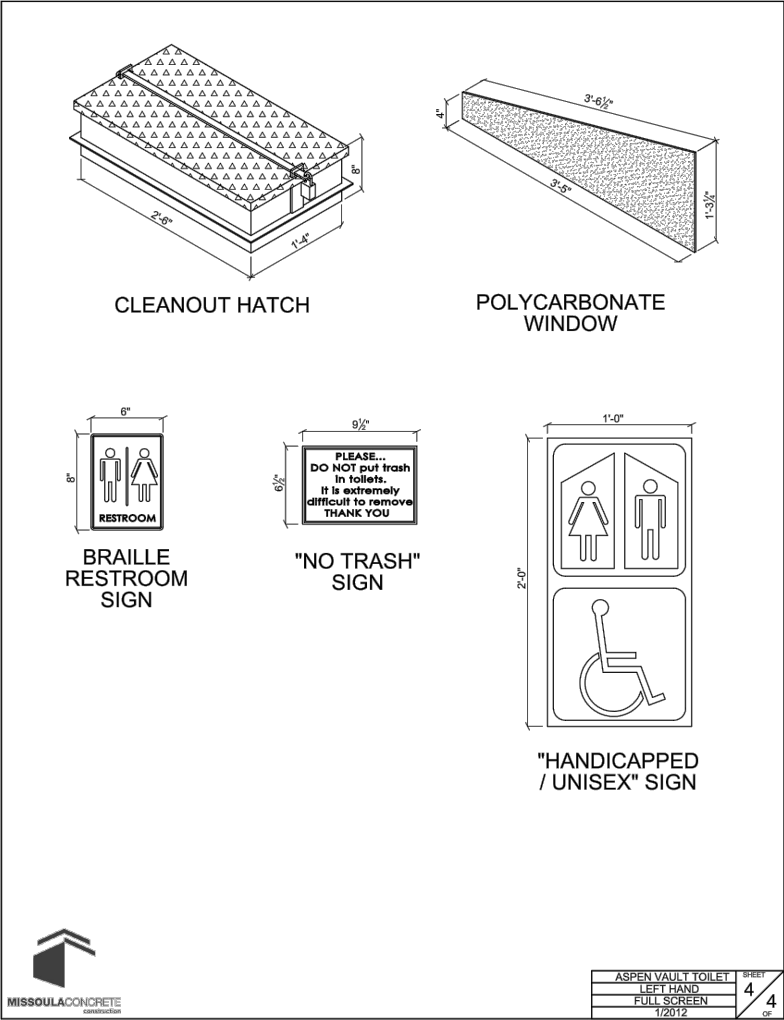
SEWER IMPROVEMENT DETAILS	
WGM GROUP ENGINEERING • SURVEYING • PLANNING 1111 EAST BROADWAY • MISSOULA, MT 59802 TEL: 406-728-4611 • FAX: 406-728-2476	PROJECT: 15-07-16
	FILE No: 150716SEWER P-P.DWG
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	SURVEYED: WGM GROUP
	DESIGN: AS
	DRAFT: EDI
	APPROVE: JLG
DATE: APRIL 28, 2017	

DRAWN BY: _____	DATE: _____	REVISED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
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FINLEY POINT STATE PARK CAMPGROUND
REGION 1
FWP #7096123

SHEET: C6.3



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SEWER IMPROVEMENT DETAILS	
 ENGINEERING • SURVEYING • PLANNING 1111 EAST BROADWAY • MISSOULA, MT 59802 TEL: 406-728-4611 • FAX: 406-728-2476	PROJECT: 15-07-16
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DRAFT: EDI	
APPROVE: JLG	
DATE: APRIL 28, 2017	

DRAWN BY:	DATE:	REVISD BY:	DATE:	APPROVED BY:	DATE:
CHECKED BY:	DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:



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REGION 1**

FWP #7096123

SHEET: C6.4

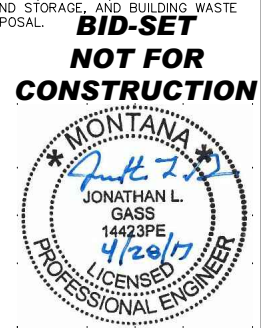
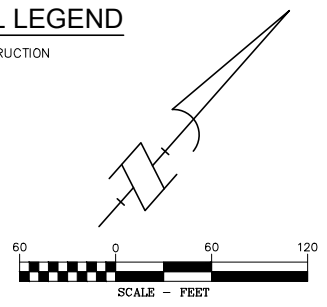


- GENERAL NOTES:**
1. THE ANTICIPATED DISTURBED AREA FOR THIS PROJECT IS GREATER THAN 1 ACRE. THEREFORE THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF THE 2013 "GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" (GENERAL PERMIT) AUTHORIZED UNDER MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND LAKE COUNTY REGULATIONS.
 2. THE CONTRACTOR SHALL FILL OUT AND SUBMIT ALL THE REQUIRED PAPERWORK AND PAY FEES FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO BE IN COMPLIANCE WITH MDEQ. THE CONTRACTOR SHALL REVIEW AND HAVE AN UNDERSTANDING OF THE PLAN'S INTENT FOR PROVIDING EROSION AND SEDIMENT CONTROL.
 3. LAND DISTURBING ACTIVITY SHALL NOT COMMENCE UNTIL APPROVAL/PERMIT HAS BEEN GIVEN BY MDEQ AND LAKE COUNTY.
 4. THIS EROSION CONTROL PLAN IS TO BE USED AS A GUIDE. IT IS THE SWPPP ADMINISTRATOR'S DUTY TO MODIFY OR UPDATE THE EROSION CONTROL PLAN TO MATCH THE SWPPP NARRATIVE AND THE ACTUAL BMPs INSTALLED ON-SITE AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) FORM IS SUBMITTED TO MDEQ.
 5. EVALUATE NEED FOR VEHICLE TRACKING PAD ENTRANCE PROTECTION. IF STREET SWEEPING IS NOT SUFFICIENT TO CONTROL OFF-SITE TRACKING ARRANGEMENT SHOWN ON THIS SHEET IS NOT SUITABLE, A VEHICLE TRACKING PAD SHALL BE UTILIZED.
 6. CONTRACTOR TO PREVENT UNTREATED RUNOFF FROM LEAVING THE SITE. ADDITIONAL BMPs MAY BE NECESSARY.
 7. CONTRACTOR TO PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. PROVIDE WATER FOR DUST CONTROL AS NECESSARY.
 8. THE CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING, INSPECTING, MAINTAINING, PRESERVING AND EVALUATING THE PERFORMANCE OF ALL EROSION CONTROL MEASURES.
 9. THE CONTRACTOR IS TO BE RESPONSIBLE FOR PERFORMING ALL MONITORING, REPORTING, AND RECORDS RETENTION REQUIREMENTS PER PART 2.3 OF THE GENERAL PERMIT. THIS INCLUDES, BUT MAY NOT BE LIMITED TO, EXECUTION OF GENERAL PERMIT ATTACHMENT C- SWPPP REVISION OR UPDATE LOG AND ATTACHMENT D- SELF INSPECTION FORM. CONTRACTOR SHALL COPY ALL RECORDS, INCLUDING THE NOT AND DEQ NOT RECEIPT LETTER.
 10. THE CONTRACTOR MUST HAVE ON-SITE AT ALL TIMES AND IMMEDIATELY AVAILABLE DURING CONSTRUCTION THE FOLLOWING: 1) COPY OF THE 2013 GENERAL PERMIT, 2) A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) FORM, 3) A COPY OF THE NOI RECEIPT CONFIRMATION LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY, 4) AN UP TO DATE COPY OF THE SWPPP INCLUDING ANY FIELD CHANGES, 5) BMP INSTALLATION AND DESIGN STANDARDS FOR ALL BMPs INSTALLED AND DETAILED IN THE SWPPP, 6) SWPPP REVISION/UPDATE LOGS, 7) SELF INSPECTION RECORDS, 8) ALL REPORTS OF NON-COMPLIANCE.
 11. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND/OR FINES THAT MAY RESULT FROM RUNOFF FROM THIS SITE PRIOR TO FINAL STABILIZATION.
 12. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD, AND UNTIL FINAL STABILIZATION OF THE SITE IS REACHED AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT PART 3.8. THE CONTRACTOR IS THEN RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURES AND SUBMITTING THE NOT TO MDEQ AND PROVIDING A COPY, ALONG WITH THE NOT RECEIPT LETTER FROM MDEQ, TO THE PROJECT ENGINEER.
 13. ALL DISTURBED AREAS SHALL BE SEED OR PAVED WITHIN 14 DAYS OF FINAL GRADING. SHOULD CONSTRUCTION OF AN AREA STOP FOR LONGER THAN 14 DAYS, THE AREA SHOULD BE TEMPORARILY SEED OR STABILIZED IN ANOTHER ACCEPTABLE MANNER.
 14. CONTRACTOR SHALL DESIGNATE THE LOCATION OF ALL DUMPSTERS, FUELING/MAINTENANCE AREAS, AND PORTABLE TOILETS.
 15. CONSTRUCTION TRASH/LITTER MUST BE THOROUGHLY CLEANED-UP AND PROPERLY DISPOSED OF ON A DAILY BASIS.
 16. CONTRACTOR TO PREVENT CONSTRUCTION SEDIMENT AND DEBRIS FROM ENTERING EXISTING STORM DRAIN INLETS AND OTHER STORM WATER FACILITIES.
 17. CONTRACTOR TO PROVIDE CONCRETE WASHOUT (IF NEEDED), PROPER MATERIAL AND EQUIPMENT MANAGEMENT AND STORAGE, AND BUILDING WASTE LOCATION ON-SITE OR PROVIDE OFFSITE DISPOSAL.

- KEY NOTES (THIS SHEET):**
1. CONTRACTOR MUST LIMIT SEDIMENT TRACKING ONTO PUBLIC AND PRIVATE STREETS. CONTRACTOR RESPONSIBLE FOR REMOVING ANY SEDIMENT TRACKED ONTO HARD SURFACES DURING CONSTRUCTION. CONTRACTOR TO STREET SWEEP AS NECESSARY. SWPPP ADMINISTRATOR TO DIRECT CONTRACTOR TO INSTALL VEHICLE TRACK PADS PER DETAIL SHEET IF STREET SWEEPING IS NOT ADEQUATELY CONTROLLING SEDIMENT TRACKING.
 2. PROVIDE CONCRETE WASHOUT AREA IF NECESSARY. IF SHOWN LOCATION IS NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATION(S). SEE DETAIL SHEET.
 3. PROVIDE MATERIAL STORAGE AND PORTABLE TOILET AREA. IF SHOWN LOCATIONS ARE NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATIONS(S).
 4. EXAMPLE SOIL STOCKPILE LOCATIONS (ACTUAL LOCATIONS DETERMINED BY CONTRACTOR). ANY STOCKPILE THAT REMAINS UNTOUCHED FOR 14 DAYS IS TO BE TEMPORARILY STABILIZE WITH THE USE OF EROSION CONTROL BLANKET OR PLASTIC LAID OVER THE STOCKPILE OR THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE STOCKPILE SET A MINIMUM OF 5 FEET FROM THE TOE OF THE PILE. UPDATED PLAN WITH STOCKPILE LOCATIONS AS THEY CHANGE.
 5. LIMIT EARTH DISTURBING ACTIVITIES NEAR THE BOUNDARY OF THE SITE TO PROTECT EXISTING VEGETATION AND PROVIDE VEGETATIVE BUFFER.
 6. SURFACE ROUGHEN AND HYDROSEED ALL DISTURBED SLOPES STEEPER THAN 3:1 USING SEED MIX IN SPECIFICATIONS.
 7. SWPPP ADMINISTRATOR TO MONITOR DOWNSTREAM EXTENTS OF PROJECT AND INSTALL SILT FENCE TO LIMIT SEDIMENT IN RUNOFF.

EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- SILT FENCE
- SOIL STOCKPILE



EROSION CONTROL PLAN



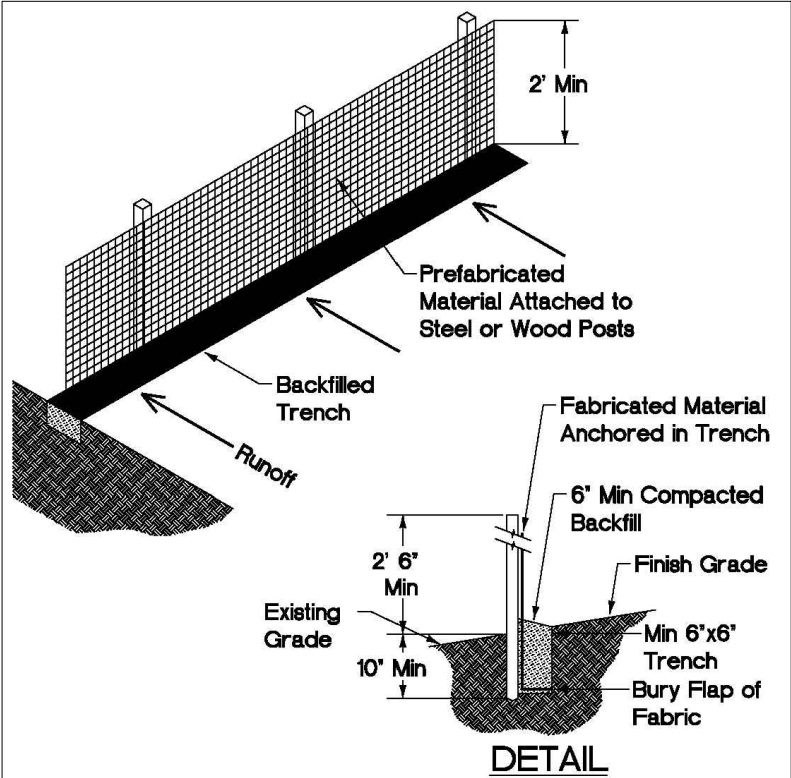
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DATE: APRIL 28, 2017

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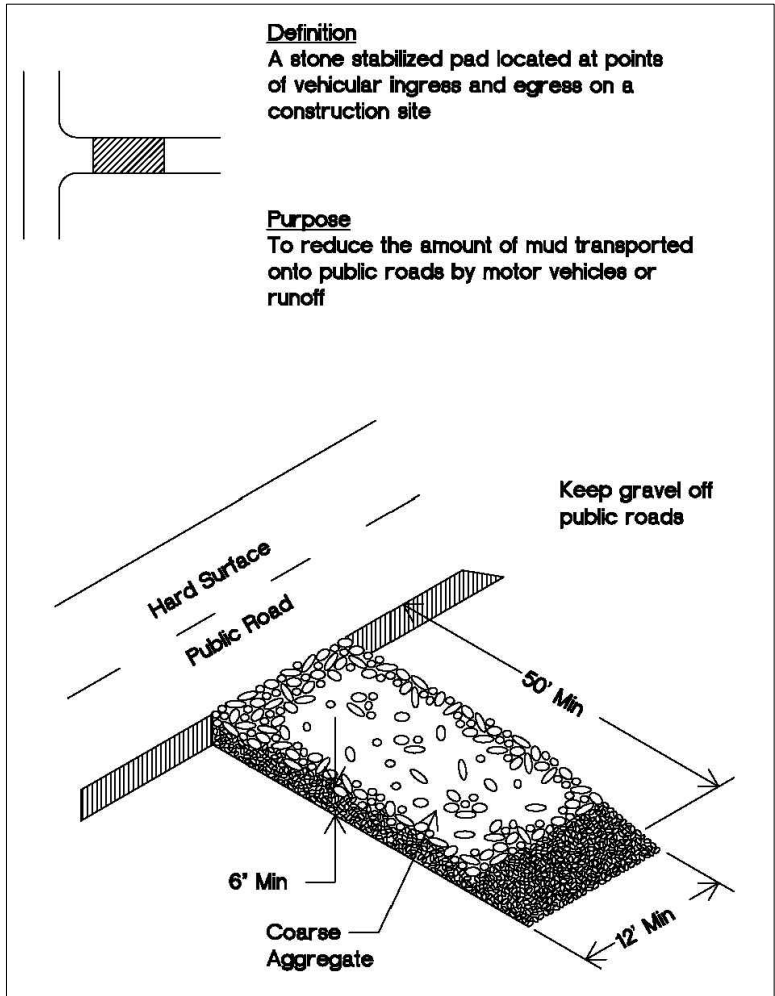
FINLEY POINT STATE PARK CAMPGROUND
REGION 1
FWP #7096123

SHEET: C7.0

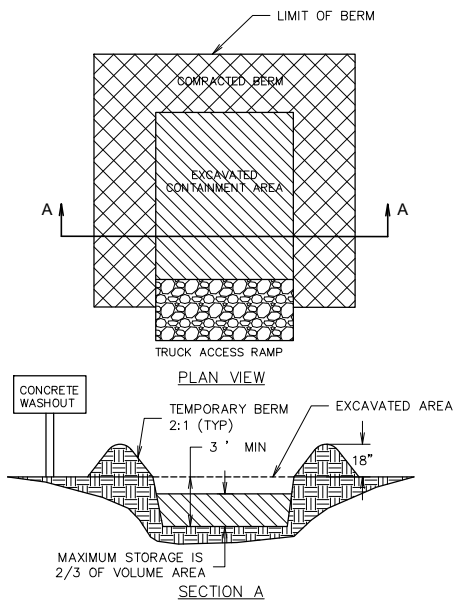


- Notes:
1. Silt fence shall be installed before any earth removal or excavation takes place.
 2. Set posts maximum 8 feet on center and excavate 6"x6" trench upslope along the line of posts.
 3. Attach filter fabric to posts and extend it into trench.
 4. Backfill and compact excavated soil.

SILT FENCE INSTALLATION DETAIL
NO SCALE



VEHICLE TRACK PAD DETAIL
NO SCALE



NOTE:
LIQUID AND SOLID WASTE FROM CONCRETE OPERATIONS IS A SIGNIFICANT POLLUTANT SOURCE WITH THE HIGH PH AND ARRAY OF CHEMICALS IT CONTAINS. CONCRETE WASHOUTS AND SLURRY CANNOT BE WASTED TO THE GROUND WITHOUT CONTAINMENT. A DESIGNATED, FUNCTIONAL CONCRETE WASHOUT AREA NEEDS TO BE CONSTRUCTED AND MAINTAINED IN A FULLY FUNCTIONAL CONDITION TO APPROPRIATELY MANAGE LIQUID WASTES GENERATED FROM CONCRETE OPERATIONS. CONTRACTOR TO REMOVE AND DISPOSE OFFSITE OF HARDENED CONCRETE DEBRIS PRIOR TO LANDSCAPING.

CONCRETE WASHOUT AREA DETAIL
NO SCALE

**BID-SET
NOT FOR
CONSTRUCTION**



EROSION CONTROL DETAILS	
 ENGINEERING • SURVEYING • PLANNING 1111 EAST BROADWAY • MISSOULA, MT 59802 TEL: 406-728-4611 • FAX: 406-728-2476	PROJECT: 15-07-16
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DATE: APRIL 28, 2017	

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FINLEY POINT STATE PARK CAMPGROUND
REGION 1
FWP #7096123

SHEET: C7.1